Living up to Life

Leica
MICROSYSTEMS

Leica M50, Leica M60 & Leica M80

Stereomicroscopes | Technical Information

Performance characteristics
Specifications

	Leica M50	Leica M60	Leica M80
Optical Data			
Zoom	5:1 manual, stage changer	6:1 manual, zoom	8:1 manual, zoom
Data with standard optics (1× objective/10× eyepieces) – Zoom range – Resolution – Working distance – Object field	 Five stages: 6.3×, 10×, 16×, 25×, 40× 225 lp/mm 89.6 mm (achromatic 1×) ∅ 5.75 mm–36.5 mm	 6.3×–40× 225 lp/mm 89.6 mm (achromatic 1×) ∅ 5.75 mm–36.5 mm	 7.5×–60× 309 lp/mm 83.4 mm (planachromatic 1×) ∅ 3.8 mm–30.7 mm
Maximum values (based on optics combination) – Magnification – Resolution – Visible structural width – Numerical aperture – Object field	 320× 450 lp/mm 1.11µm 0.15 ∅ 116.8 mm	 320× 450 lp/mm 1.11 µm 0.15 ∅ 116.8 mm	 480× 618 lp/mm 0.81 µm 0.206 ∅ 98 mm
Working distances	303 mm (achromatic 0.32×) 188.5 mm (achromatic 0.5×) 148 mm (achromatic 0.63×) 114 mm (achromatic 0.8×) 89.6 mm (achromatic 1×) 65.5 mm (achromatic 1.25×) 46 mm (achromatic 1.6×) 27.4 mm (achromatic 2.0×) 106.9 mm (planachromatic 0.8×) 83.4 mm (planachromatic 1.0×) 41.5 mm (planachromatic 1.6×)	303 mm (achromatic 0.32×) 188.5 mm (achromatic 0.5×) 148 mm (achromatic 0.63×) 114 mm (achromatic 0.8×) 89.6 mm (achromatic 1×) 65.5 mm (achromatic 1.25×) 46 mm (achromatic 1.6×) 27.4 mm (achromatic 2.0×) 106.9 mm (planachromatic 0.8×) 83.4 mm (planachromatic 1.0×) 41.5 mm (planachromatic 1.6×)	303 mm (achromatic 0.32×) 188.5 mm (achromatic 0.5×) 148 mm (achromatic 0.63×) 114 mm (achromatic 0.8×) 89.6 mm (achromatic 1×) 65.5 mm (achromatic 1.25×) 46 mm (achromatic 1.6×) 27.4 mm (achromatic 2.0×) 106.9 mm (planachromatic 0.8×) 83.4 mm (planachromatic 1.0×) 41.5 mm (planachromatic 1.6×)
Optics carrier			
Design principle	Multiple-coated optical system with two parallel beam paths and one main objective (CMO), lead-free		
Specific surface resistivity (housing)	2×10^{11} Ω/mm² discharge time <2 seconds from 1 000 V to 100 V	2×10^{11} Ω/mm² discharge time <2 seconds from 1 000 V to 100 V	2×10^{11} Ω/mm² discharge time <2 seconds from 1 000 V to 100 V
Engageable zoom notches	–	7 switchable positions, for repetitive tasks	8 switchable positions, for repetitive tasks

	Leica M50	Leica M60	Leica M80
Accessories			
Standard objective	Achromatic 1×	Achromatic 1×	Planachr. 1×
Additional objectives	Achromat: 0.32×, 0.5×, 0.63×, 0.8×, 1×, 1.25×, 1.6×, 2× Planachromat: 0.8×, 1×, 1.6×		
Binocular tubes, ergonomics	Various ErgoModules®, ErgoTube® with variable viewing angle 10° - 50°		
Interpupillary distance	Variable		
Wide-field eyepieces for eyeglass wearers	10×, 16×, 25×, 40×, with replaceable eyecups & click stop		

Modular System

	Leica M50, Leica M60 and Leica M80
	Stands, illuminators
Transmitted light bases	Leica TL3000 ST: Bright field and dark field on one side – TL4000 BFDF: Bright and circular dark field – TL4000 RC / RCI™: Bright field, single-sided dark field, Rottermann Contrast – TL5000 Ergo: Bright field two-sided dark field, Rottermann Contrast
Incident light bases	Incident light base small or incident light base medium and large with black/white stage plate and antishock™ feet
Stages	Gliding stage, MATS heating stage, cup stage, rotatable polarization stage, Leica IsoPro™ Cross-stage (manual and motorized)
Illuminators	LED3000 RL, LED3000 SLI, LED3000 NVI, LED3000 MCI, LED3000 DI, LED3000 BLI, LED5000 CXI, LED5000 NVI, KL300 LED, Cold-light sources (halogen and LED versions)
	Misc. accessories
Photography, video	Digital image capture systems from Leica, various camera variants, e.g. integrated IC 80 HD or external DFC295, various adapters for commercially available analog and digital cameras
Image archiving, image processing	Leica Application Suite (LAS) software, consisting of basic program and many auxiliary modules, such as LAS Live Measurement, LAS Annotation, LAS Reticule and many more
Graticules	For length measurement and counting
Drawing tube	For left and right-handed users
Discussion tube for training for two observers	For two observers

Leica M50 / M60 Optical Data

Objectives		**Achr. 0.32×**		**Achr. 0.5×**		**Achr. 0.63×**		**Achr. 0.8×**	**Plan-achr. 0.8×**	**Achr. 1.0×**	**Plan-achr. 1.0×**	**Achr. 1.25×**		**Achr. 1.6×**	**Plan-achr. 1.6×**	**Achr. 2.0×**	
Working distance		303 mm		188.5 mm		148.2 mm		114 mm	107 mm	89.6 mm	83.4 mm	65.5 mm		46 mm	41.5 mm	27.4 mm	
Eyepiece	Mag. level	Total mag. ×	Obj. field ∅	Total mag. ×	Obj. field ∅	Total mag. ×	Obj. field ∅	Total mag. ×	Obj. field ∅	Total mag. ×	Obj. field ∅	Total mag. ×	Obj. field ∅	Total mag. ×	Obj. field ∅	Total mag. ×	Obj. field ∅
10×/23B	0.63	1.97	116.8	3.15	73	3.94	58.4	5.04	45.6	6.3	36.5	7.88	29.2	10.1	22.8	12.6	18.3
	1.0	3.13	73.6	5	46	6.25	36.8	8	28.8	10	23	12.5	18.4	16	14.4	20	11.5
	1.6	5	46	8	28.8	10	23	12.8	18	16	14.4	20	11.5	25.6	8.98	32	7.19
	2.5	7.81	29.4	12.5	18.4	15.6	14.7	20	11.5	25	9.2	31.3	7.36	40	5.75	50	4.6
	4.0	12.5	18.4	20	11.5	25	9.2	32	7.19	40	5.75	50	4.6	64	3.59	80	2.88
16×/15B	0.63	3.15	76.2	5.04	47.6	6.3	38.1	8.06	29.8	10.1	23.8	12.6	19	16.1	14.9	20.2	11.9
	1.0	5	48	8	30	10	24	12.8	18.8	16	15	20	12	25.6	9.38	32	7.5
	1.6	8	30	12.8	18.8	16	15	20.5	11.7	25.6	9.38	32	7.5	41	5.86	51.2	4.69
	2.5	12.5	19.2	20	12	25	9.6	32	7.5	40	6	50	4.8	64	3.75	80	3
	4.0	20	12	32	7.5	40	6	51.2	4.69	64	3.75	80	3	102	2.34	128	1.88
25×/10B	0.63	4.92	50.8	7.88	31.7	9.84	25.4	12.6	19.8	15.8	15.9	19.7	12.7	25.2	9.92	31.5	7.94
	1.0	7.81	32	12.5	20	15.6	16	20	12.5	25	10	31.3	8	40	6.25	50	5
	1.6	12.5	20	20	12.5	25	10	32	7.81	40	6.25	50	5	64	3.91	80	3.13
	2.5	19.5	12.8	31.3	8	39.1	6.4	50	5	62.5	4	78.1	3.2	100	2.5	125	2
	4.0	31.3	8	50	5	62.5	4	80	3.13	100	2.5	125	2	160	1.56	200	1.25
40×/6B	0.63	7.88	30.5	12.6	19	15.8	15.2	20.2	11.9	25.2	9.52	31.5	7.62	40.3	5.95	50.4	4.76
	1.0	12.5	19.2	20	12	25	9.6	32	7.5	40	6	50	4.8	64	3.75	80	3
	1.6	20	12	32	7.5	40	6	51.2	4.69	64	3.75	80	3	102	2.34	128	1.88
	2.5	31.3	7.68	50	4.8	62.5	3.84	80	3	100	2.4	125	1.92	160	1.5	200	1.2
	4.0	50	4.8	80	3	100	2.4	128	1.88	160	1.5	200	1.2	256	0.938	320	0.75

Leica M80 Optical Data

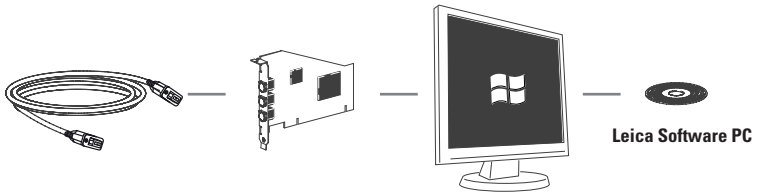
Objectives		Achr. 0.32×		Achr. 0.5×		Achr. 0.63×		Achr. 0.8×	Plan-achr. 0.8×	Achr. 1.0×	Plan-achr. 1.0×	Achr. 1.25×		Achr. 1.6×	Plan-achr. 1.6×	Achr. 2.0×	
Working distance		303 mm		188.5 mm		148.2 mm		114 mm	107 mm	89.6 mm	83.4 mm	65.5 mm		46 mm	41.5 mm	27.4 mm	
Eyepiece	Zoom setting	Total mag. ×	Obj. field ∅	Total mag. ×	Obj. field ∅	Total mag. ×	Obj. field ∅	Total mag. ×	Obj. field ∅	Total mag. ×	Obj. field ∅	Total mag. ×	Obj. field ∅	Total mag. ×	Obj. field ∅	Total mag. ×	Obj. field ∅
10×/23B	0.75	2.34	98.1	3.75	61.3	4.69	49.1	6.0	38.3	7.5	30.7	9.38	24.5	12.0	19.2	15.0	15.3
	1.0	3.13	73.6	5.0	46	6.25	36.8	8.0	28.8	10.0	23	12.5	18.4	16.0	14.4	20.0	11.5
	1.25	3.91	58.9	6.25	36.8	7.81	29.4	10.0	23	12.5	18.4	15.6	14.7	20.0	11.5	25.0	9.2
	1.6	5.0	46	8.0	28.8	10.0	23	12.8	18	16.0	14.4	20.0	11.5	25.6	8.98	32.0	7.19
	2.0	6.25	36.8	10.0	23	12.5	18.4	16.0	14.4	20.0	11.5	25.0	9.2	32.0	7.19	40.0	5.75
	2.5	7.81	29.4	12.5	18.4	15.6	14.7	20.0	11.5	25.0	9.2	31.3	7.36	40.0	5.75	50.0	4.6
	3.2	10.0	23	16.0	14.4	20.0	11.5	25.6	8.98	32.0	7.19	40.0	5.75	51.2	4.49	64.0	3.59
	4.0	12.5	18.4	20.0	11.5	25.0	9.2	32.0	7.19	40.0	5.75	50.0	4.6	64.0	3.59	80.0	2.88
	5.0	15.6	14.7	25.0	9.2	31.3	7.36	40.0	5.75	50.0	4.6	62.5	3.68	80.0	2.88	100.0	2.3
	6.0	18.8	12.3	30.0	7.67	37.5	6.13	48.0	4.79	60.0	3.83	75.0	3.07	96.0	2.4	120.0	1.92
16×/15B	0.75	3.75	64	6.0	40	7.5	32	9.6	25	12.0	20	15.0	16	19.2	12.5	24.0	10
	1.0	5.0	48	8.0	30	10.0	24	12.8	18.8	16.0	15	20.0	12	25.6	9.38	32.0	7.5
	1.25	6.25	38.4	10.0	24	12.5	19.2	16.0	15	20.0	12	25.0	9.6	32.0	7.5	40.0	6
	1.6	8.0	30	12.8	18.8	16.0	15	20.5	11.7	25.6	9.38	32.0	7.5	41.0	5.86	51.2	4.69
	2.0	10.0	24	16.0	15	20.0	12	25.6	9.38	32.0	7.5	40.0	6	51.2	4.69	64.0	3.75
	2.5	12.5	19.2	20.0	12	25.0	9.6	32.0	7.5	40.0	6	50.0	4.8	64.0	3.75	80.0	3
	3.2	16.0	15	25.6	9.38	32.0	7.5	41.0	5.86	51.2	4.69	64.0	3.75	81.9	2.93	102.0	2.34
	4.0	20.0	12	32.0	7.5	40.0	6	51.2	4.69	64.0	3.75	80.0	3	102.0	2.34	128.0	1.88
	5.0	25.0	9.6	40.0	6	50.0	4.8	64.0	3.75	80.0	3	100.0	2.4	128.0	1.88	160.0	1.5
	6.0	30.0	8	48.0	5	60.0	4	76.8	3.13	96.0	2.5	120.0	2	154.0	1.56	192.0	1.25
25×/10B	0.75	5.86	42.7	9.38	26.7	11.7	21.3	15.0	16.7	18.8	13.3	23.4	10.7	30.0	8.33	37.5	6.67
	1.0	7.81	32	12.5	20	15.6	16	20.0	12.5	25.0	10	31.3	8	40.0	6.25	50.0	5
	1.25	9.77	25.6	15.6	16	19.5	12.8	25.0	10	31.3	8	39.1	6.4	50.0	5	62.5	4
	1.6	12.5	20	20.0	12.5	25.0	10	32.0	7.81	40.0	6.25	50.0	5	64.0	3.91	80.0	3.13
	2.0	15.6	16	25.0	10	31.3	8	40.0	6.25	50.0	5	62.5	4	80.0	3.13	100.0	2.5
	2.5	19.5	12.8	31.3	8	39.1	6.4	50.0	5	62.5	4	78.1	3.2	100.0	2.5	125.0	2
	3.2	25.0	10	40.0	6.25	50.0	5	64.0	3.91	80.0	3.13	100.0	2.5	128.0	1.95	160.0	1.56
	4.0	31.3	8	50.0	5	62.5	4	80.0	3.13	100.0	2.5	125.0	2	160.0	1.56	200.0	1.25
	5.0	39.1	6.4	62.5	4	78.1	3.2	100.0	2.5	125.0	2	156.0	1.6	200.0	1.25	250.0	1
	6.0	46.9	5.33	75.0	3.33	93.8	2.67	120.0	2.08	150.0	1.67	188.0	1.33	240.0	1.04	300.0	0.833
40×/6B	0.75	9.38	25.6	15.0	16	18.8	12.8	24.0	10	30.0	8	37.5	6.4	48.0	5	60.0	4
	1.0	12.5	19.2	20.0	12	25.0	9.6	32.0	7.5	40.0	6	50.0	4.8	64.0	3.75	80.0	3
	1.25	15.6	15.4	25.0	9.6	31.3	7.68	40.0	6	50.0	4.8	62.5	3.84	80.0	3	100.0	2.4
	1.6	20.0	12	32.0	7.5	40.0	6	51.2	4.69	64.0	3.75	80.0	3	102.0	2.34	128.0	1.88
	2.0	25.0	9.6	40.0	6	50.0	4.8	64.0	3.75	80.0	3	100.0	2.4	128.0	1.88	160.0	1.5
	2.5	31.3	7.68	50.0	4.8	62.5	3.84	80.0	3	100.0	2.4	125.0	1.92	160.0	1.5	200.0	1.2
	3.2	40.0	6	64.0	3.75	80.0	3	102.0	2.34	128.0	1.88	160.0	1.5	205.0	1.17	256.0	0.938
	4.0	50.0	4.8	80.0	3	100.0	2.4	128.0	1.88	160.0	1.5	200.0	1.2	256.0	0.938	320.0	0.75
	5.0	62.5	3.84	100.0	2.4	125.0	1.92	160.0	1.5	200.0	1.2	250.0	0.96	320.0	0.75	400.0	0.6
	6.0	75.0	3.2	120.0	2	150.0	1.6	192.0	1.25	240.0	1	300.0	0.8	384.0	0.625	480.0	0.5

Major User Segments

	Natural science
Embryology	Veterinary science: animal husbandry
Pharmacology	Pharmaceutical research and industry, pharmacology laboratories
Anatomy	Departments of anatomy, histology and pathology at universities, schools of medical and veterinary sciences, pharmaceutical research institutes, cancer research institutes
Microbiology	Microbiology departments and laboratories at universities Food industry
Botany	Natural science institutes and museums
	Botanical gardens, herbariums

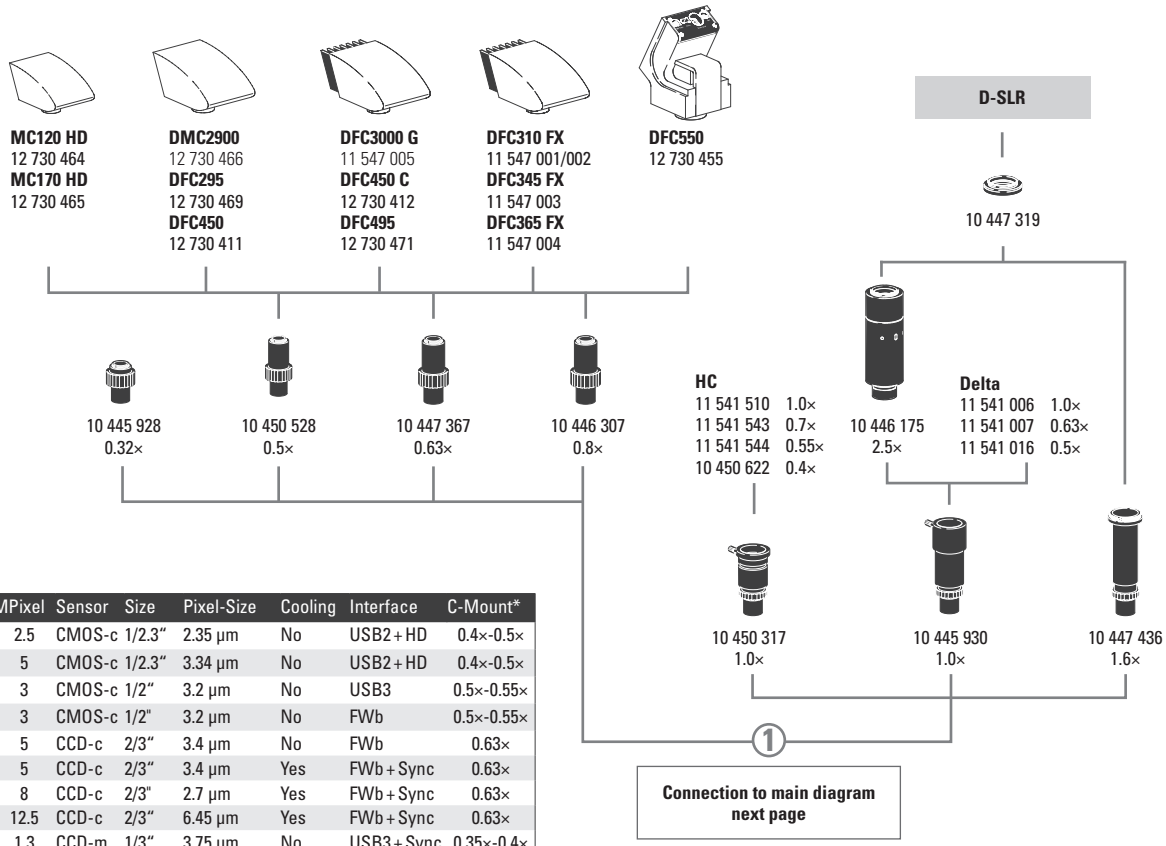
	Industry
Earth sciences	Departments of geology, mineralogy, paleontology
Physics	Departments of experimental physics, optics, solid-state physics
Semiconductors	Quality control, production, process control, research and development
Microtechnology	Mask manufacturers, manufacturers of integrated circuits, assembly of microchips
Materials development	Development and test labs, quality control
Synthetic materials	Research and development, manufacturers of synthetic products, colleges and universities

	Criminology
Criminological examinations	Crime labs, investigation and law enforcement, evidence and forensics



Cables
11 600 269, FW-b-b
11 600 254, FW-a-b
12 730 211, HDMI-cable
12 730 496, USB3-cable

PC Cards
12 730 446, FW-b, Notebook Kit
12 730 447, FW-b, PCI express
12 730 495, USB3, PCI express



Name	MPixel	Sensor	Size	Pixel-Size	Cooling	Interface	C-Mount*
MC120 HD	2.5	CMOS-c	1/2.3"	2.35 µm	No	USB2 + HD	0.4×-0.5×
MC170 HD	5	CMOS-c	1/2.3"	3.34 µm	No	USB2 + HD	0.4×-0.5×
DMC2900	3	CMOS-c	1/2"	3.2 µm	No	USB3	0.5×-0.55×
DFC295	3	CMOS-c	1/2"	3.2 µm	No	FWb	0.5×-0.55×
DFC450	5	CCD-c	2/3"	3.4 µm	No	FWb	0.63×
DFC450 C	5	CCD-c	2/3"	3.4 µm	Yes	FWb + Sync	0.63×
DFC495	8	CCD-c	2/3"	2.7 µm	Yes	FWb + Sync	0.63×
DFC550	12.5	CCD-c	2/3"	6.45 µm	Yes	FWb + Sync	0.63×
DFC3000 G	1.3	CCD-m	1/3"	3.75 µm	No	USB3 + Sync	0.35×-0.4×
DFC310 FX	1.4	CCD-c	2/3"	6.45 µm	Yes	FWb + Sync	0.63×
DFC345 FX	2	CCD-m	1/2"	4.4 µm	Yes	FWb + Sync	0.5×
DFC365 FX	1.4	CCD-m	2/3"	6.45 µm	Yes	FWb + Sync	0.63×

-c: color / -m: monochrome / * recommended

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ARTICLE DESCRIPTIONS

Digital camera systems

12 730 464 Leica MC120 HD camera kit
12 730 465 Leica MC170 HD camera kit
12 730 466 Leica DMC2900 camera kit
12 730 469 Leica DFC295 camera kit
12 730 411 Leica DFC450 camera kit
12 730 412 Leica DFC450 C camera kit
12 730 471 Leica DFC495 camera kit
12 730 455 Leica DFC550 camera kit

11 547 005 Leica DFC3000 G camera kit
11 547 002 Leica DFC310 FX camera kit
11 547 003 Leica DFC345 FX camera kit
11 547 004 Leica DFC365 FX camera kit

12 730 216 Leica IC80 HD camera (incl. USB-cable and Leica Software) not recommended for MZ10 F / M165 FC / M205 FA
12 730 228 Leica Stand-alone-kit (USB power pack, HDMI-cable, SD-card, HD RC remote control) for IC80 HD
12 730 229 Palm or foot switch with 2 m cable for IC80 HD

Digitale camera system accessories

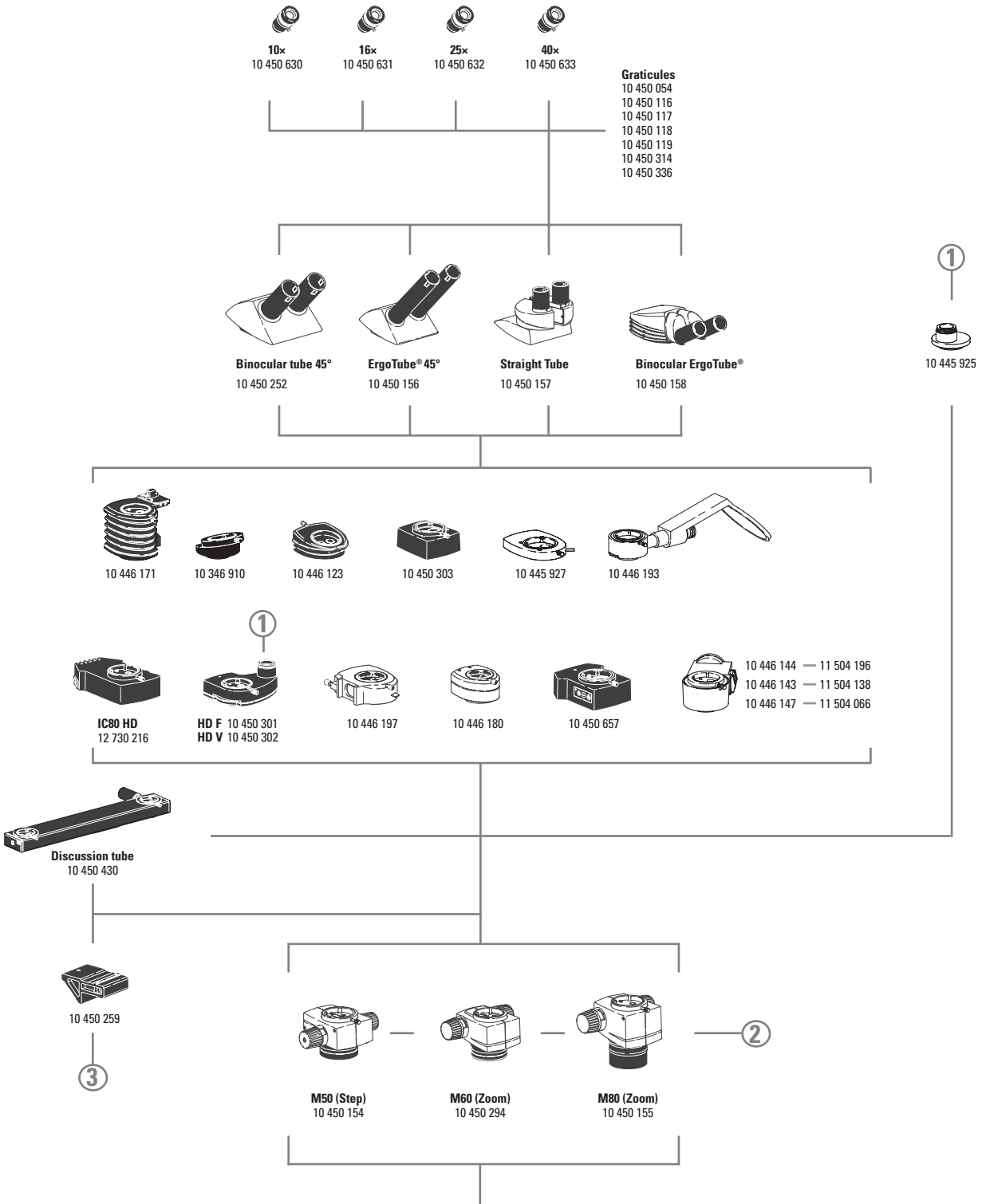
11 600 269 FireWire cable, FW-b-b, 2.5 m, 9-pin to 9-pin
11 600 254 FireWire cable, FW-a-b, 2.5 m, 6-pin to 9-pin
12 730 211 HDMI-cable, 3 m, HDMI 2x Standard-A
12 730 496 USB3-cable, 2.5 m Standard-A to Micro-B
12 730 446 FW-b, Notebook Kit (includes PCcard Express, power suppy: 100-240 V, 24 W, adapter FW-b-a)
12 730 447 FW-b, PCI express card
12 730 495 USB3, PCI express card

Phototubes and C-mounts

10 447 319 Adapter T2, Canon EOS
10 447 436 1.6× DSLR tube with T2 thread (APS-C sensor)
10 446 175 2.5× DSLR tube with T2 thread (24×36 mm sensor)
10 445 928 0.32× video objektive with C-mount for 1/3" digital cameras
10 450 528 0.5× video objektive with C-mount for 1/2" digital cameras
10 447 367 0.63× video objektive with C-mount for 2/3" digital cameras
10 446 307 0.8× video objektive with C-mount for 2/3" digital cameras
10 445 930 1.0× video-/photo objektive
10 450 317 1.0× C-mount adapter for HC

Eyepieces and tubes

10 450 630 Wide-field eyepieces for eyeglass wearers 10×/23, distortion-free, dioptric correction, with eyecups*
10 450 631 Wide-field eyepieces for eyeglass wearers 16×/15, distortion-free, dioptric correction, with eyecups*
10 450 632 Wide-field eyepieces for eyeglass wearers 25×/9.5, distortion-free, dioptric correction, with eyecups*



ARTICLE DESCRIPTIONS

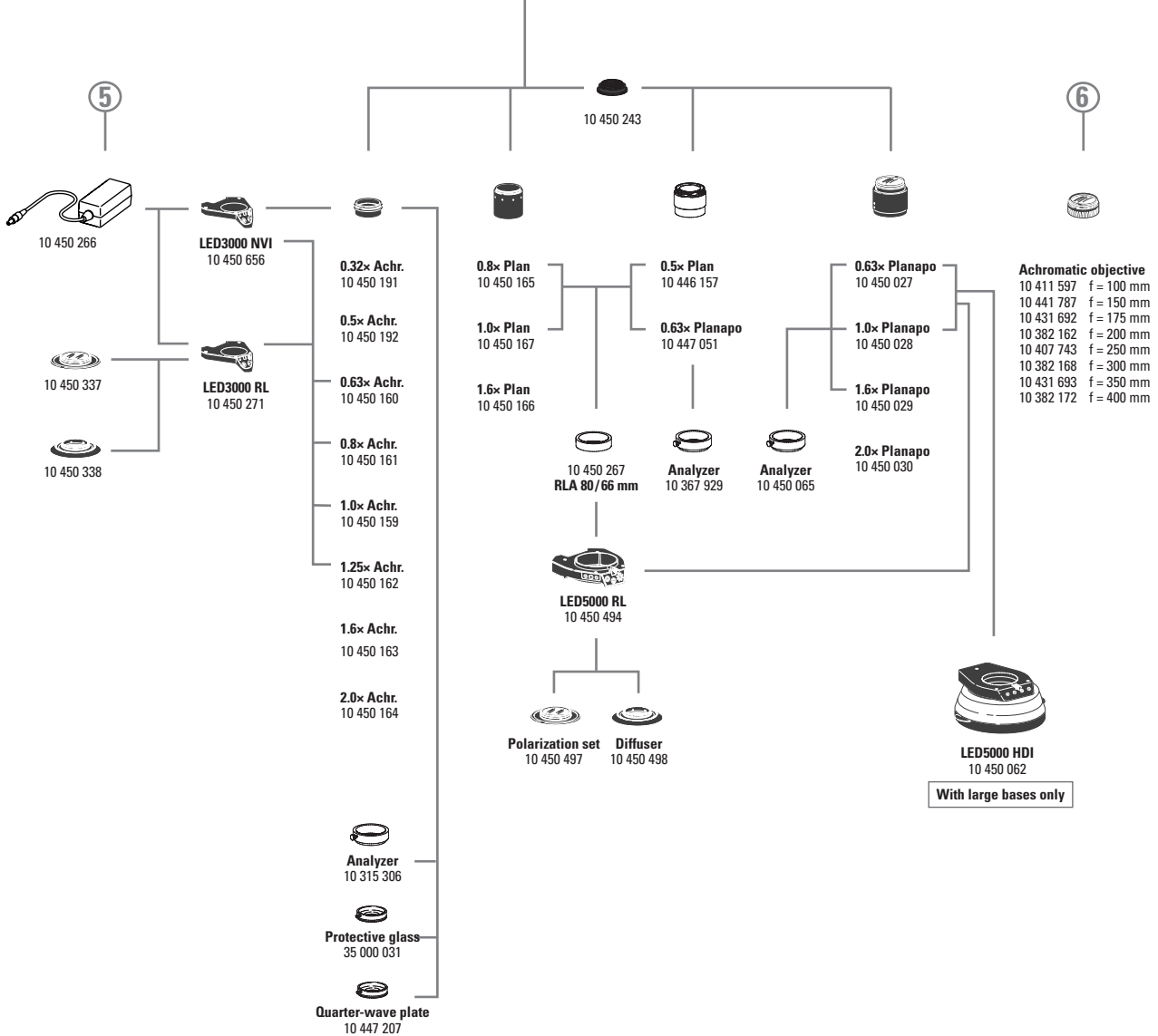
10 450 633 Wide-field eyepieces for eyeglass wearers 40×/6, distortion-free, dioptric correction, with eyecups*
* replaceable
10 450 054 Reticule for M-series with encoding
10 450 116 Reticule, 5 mm / 0.05 mm
10 450 117 Reticule 10 mm / 0.1 mm
10 450 118 Graticule, 100 scale intervals / 0.001"
10 450 119 Graticule, crosshair
10 450 314 Blank graticule glass for individual marking, with holder
10 450 336 Graticule 12 mm
10 450 252 Inclined binocular tube, 45° viewing angle
10 450 156 Binocular ErgoTube® with 45° viewing angle and long tubes
10 450 157 Straight binocular tube with 90° viewing angle
10 450 158 Binocular ErgoTube® with variable 10° – 50° viewing angle
10 446 123 ErgoWedge® 5° – 25°
10 346 910 ErgoWedge® ±15
10 450 303 ErgoModule® 50 mm
10 446 197 Video/phototube HD-50
10 450 301 Video/phototube HD-F, 50 %, 50 %
10 450 302 Video/phototube HD-V, 100 %, 50 %, 50 %, 100 %
12 730 216 Leica IC80 HD camera kit
10 446 180 Coaxial incident light housing for fiber-optic light
10 445 925 Video/phototube A
10 446 193 Drawing tube
10 445 927 Double-iris diaphragm
10 446 171 ErgoModule® 30 mm – 120 mm

Zoom systems and accessories

10 450 154 Leica M50 optics carrier with five-step mag. changer
10 450 294 Leica M60 optics carrier with zoom mag. changer 6:1
10 450 155 Leica M80 optics carrier with zoom mag. changer 8:1
10 450 104 Microscope carrier for MZ series instruments
10 450 106 Microscope carrier for Leica M50/M80, as well as S and Z-series

Objectives and optical accessories

10 450 191 Achromatic objective 0.32×, working distance 303 mm, ∅ 58 mm
10 450 192 Achromatic objective 0.5×, working distance 188.5 mm, ∅58 mm
10 450 160 Achromatic objective 0.63×, working distance 148 mm, ∅58 mm
10 450 161 Achromatic objective 0.8×, working distance 114 mm, ∅58 mm
10 450 159 Achromatic objective 1.0×, working distance 89.6 mm, ∅58 mm
10 450 162 Achromatic objective 1.25×, working distance 65.5 mm, ∅58 mm
10 450 163 Achromatic objective 1.6×, working distance 46 mm, ∅58 mm
10 450 164 Achromatic objective 2×, working distance 27.4 mm, ∅58 mm
10 446 157 Planachromatic objective 0.5×, working distance 135 mm, ∅66 mm
10 450 165 Planachromatic objective 0.8 ×, working distance 107 mm, ∅66 mm
10 450 167 Planachromatic objective 1.0 ×, working distance 83.4 mm, ∅66 mm
10 450 166 Planachromatic objective 1.6 ×, working distance 41.5 mm, ∅66 mm
10 447 051 Planapochromatic objective 0.63×, working dist. 97 mm, ∅ 66 mm
10 450 027 Planapochromatic objective 0.63×, working dist. 67 mm, ∅ 80 mm

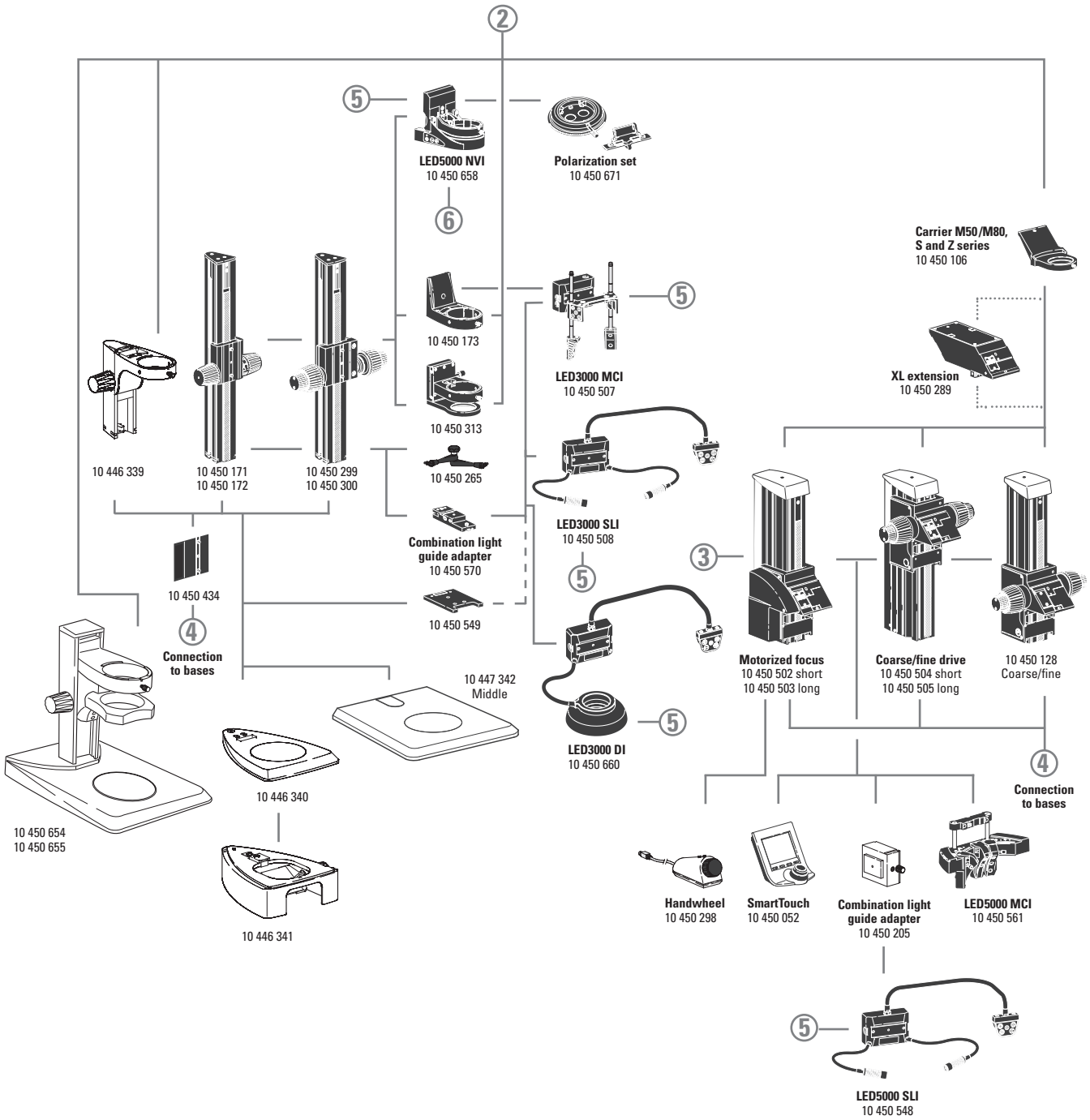


ARTICLE DESCRIPTIONS

10 450 028	Planapochromatic objective 1.0×, working dist. 61.5 mm, ∅ 80 mm
10 450 029	Planapochromatic objective 1.6×, working dist. 30.5 mm, ∅ 80 mm
10 450 030	Planapochromatic objective 2×, working dist. 20.1 mm, ∅ 85 mm
10 411 597	Achromatic objective f = 100 mm
10 441 787	Achromatic objective f = 150 mm
10 431 692	Achromatic objective f = 175 mm
10 382 162	Achromatic objective f = 200 mm
10 407 743	Achromatic objective f = 250 mm
10 382 168	Achromatic objective f = 300 mm
10 431 693	Achromatic objective f = 350 mm
10 382 172	Achromatic objective f = 400 mm
10 447 207	Quarter-wave plate, ∅ 58 mm
35 000 031	Protective glass holder ∅ 58 mm with protective glass
10 315 306	Analyzer, ∅ 58 mm
10 450 065	Analyzer in rotatable mount, ∅ 80 mm, for planachromat and planapochromat ∅ 80 mm
10 367 929	Analyzer in revolving mount for planachromatic and planapochromatic ∅ 66 mm
10 450 243	Adapter with outer diameter M60 × 1 / inner ∅ M65 × 1.5
10 450 430	Discussion tube
10 450 259	Carrier for discussion tube
10 446 144	UV fluorescence module
10 446 143	GFP LP fluorescence module
10 446 147	RFP LP fluorescence module
11 504 196	LED module 365 nm
11 504 138	LED module 470 nm
11 504 066	Lamp housing 106 z, Hg 50 W
10 450 265	Articulated arm; M5/M6

Illumination

10 450 271	LED3000 RL – ring illuminator, for ∅ 58 mm objectives, 24 power LEDs
10 450 337	Polarization set for Leica LED3000 RL
10 450 338	Diffuser for Leica LED3000 RL
10 450 656	LED3000 NVI – vertical illuminator for ∅ 58 mm objectives, for 60 – 150 mm working distance
10 450 501	RLA 58/66 ring light adapter for LED3000 RL and LED3000 NVI to objectives with ∅ 66 mm
10 450 508	LED3000 SLI, spotlight illuminator, double-armed gooseneck 300 mm long, with 2 power LEDs, 5 600 K color temperature
10 450 507	LED3000 MCI, multi-contrast illumination with 4 power LEDs
10 450 660	LED3000 DI, diffuse illumination
10 450 549	LED3000 SLI/MCI adapter for installation between the focusing column and baseplate
10 450 570	Combination light guide-adapter to focusing columns of the routine M series, for LED3000 SLI and LED3000 MCI
10 450 494	LED5000 RL-80/40 – ring illuminator, for ∅ 80 mm objectives, 40 LEDs
10 450 497	Polarization set for Leica LED5000 RL-80/40
10 450 498	Diffuser for Leica LED5000 RL-80/40
10 450 267	RLA 80/66 ring illuminator adapter for objectives with ∅ 66 mm



ARTICLE DESCRIPTIONS

10 450 658 LED5000 NVI, near-vertical illumination for routine stereomicroscopes
10 450 671 Polarization set for LED5000 NVI
10 450 548 LED5000 SLI, spotlight illuminator, double-armed gooseneck 500 mm long, with 2 power LEDs, 5 600 K color temperature
10 450 561 LED5000 MCI, multi contrast illumination with 9 power LEDs,
10 450 657 LED5000 CXI – coaxial LED incident-light illuminator, 1.5× magnification factor
10 450 062 LED5000 HDI, diffuse illumination, FlexiDome, ideal for highly reflective specimens
10 450 205 Combination light guide-adapter to focusing columns of the high-performance M series, for LED5000 SLI
10 450 266 Power supply for LED3000/LED5000

Focusing drive

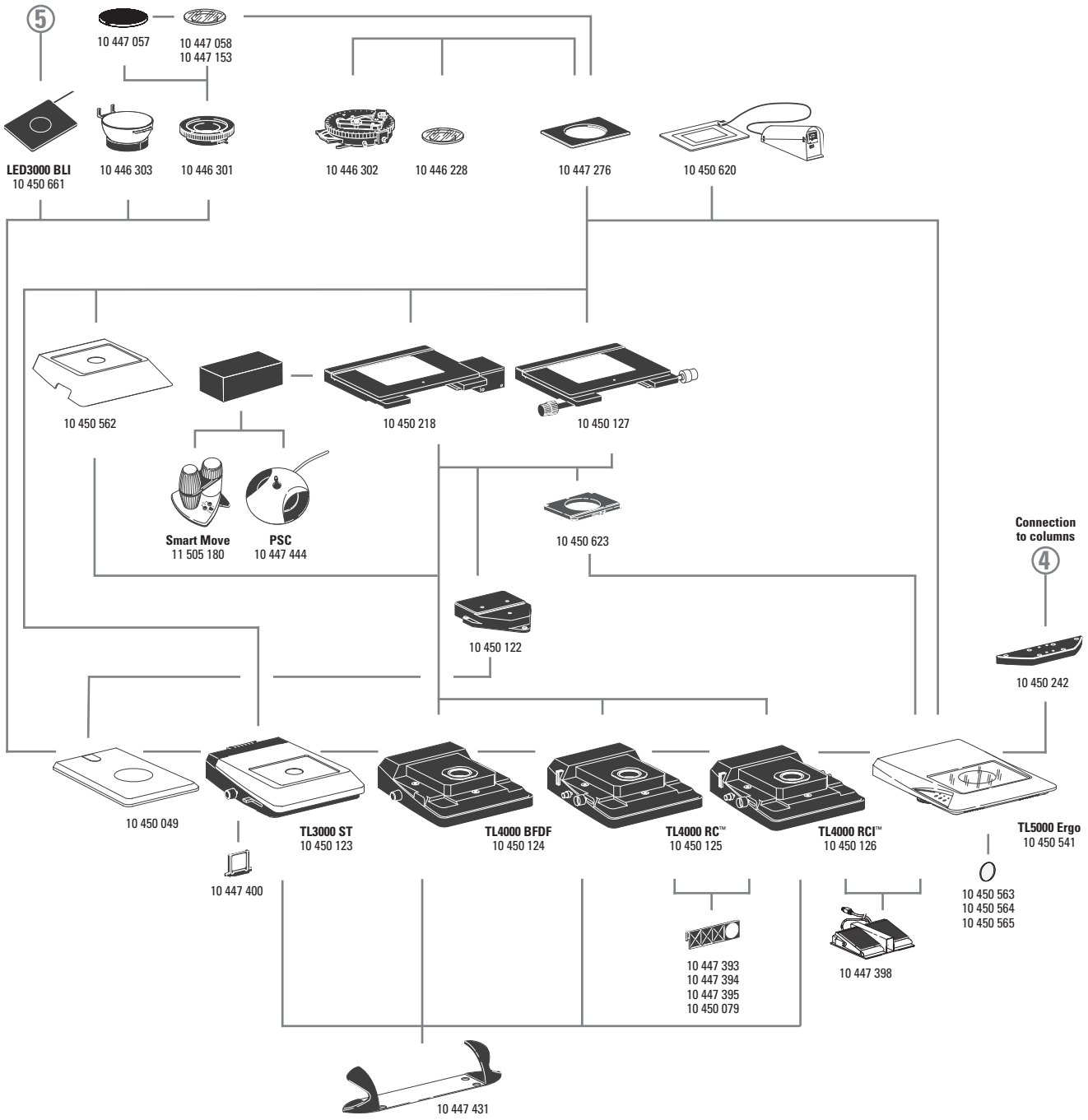
10 450 504 Coarse/fine focusing drive with profile column 420 mm
10 450 505 Coarse/fine focusing drive with profile column 620 mm
10 450 502 Motorized focus with profile column 420 mm
10 450 503 Motorized focus with profile column 620 mm
10 450 128 Coarse/fine focusing drive with profile column 420 mm, for M125
10 450 171 Coarse focusing drive with profile column 300 mm
10 450 172 Coarse focusing drive with profile column 500 mm
10 450 299 Coarse/fine focusing drive with profile column 300 mm
10 450 300 Coarse/fine focusing drive with profile column 500 mm
10 450 173 Microscope carrier for M-Series with 76 mm interface
10 450 313 Microscope carrier AX
10 446 339 Focusing drive with integrated microscope carrier
10 450 434 Spacer for routine columns on high-performance bases

Controls

11 505 180 Leica Smart Move control unit for Leica IsoPro™ motorized cross-stage
10 447 444 Leica PSC control unit for Leica IsoPro™ motorized stage
10 450 052 SmartTouch, external control unit with integr. touchscreen for controlling all functions
10 450 298 Manual controller for motorized focus
10 447 398 Footswitch for motorized stereomicroscopes

Incident light and transmitted light bases

10 450 049 Incident light base large
10 447 342 Incident light base medium
10 446 340 Incident light base small
10 446 341 Sub-base for transmitted light with reflector for 10 446 340 Cold light source with light guide required
10 450 654 LED2000 incident light stand
10 450 655 LED2500 incident and transmitted light stand
10 450 123 Transmitted light base TL3000 ST with bright field (HF) and single-sided dark field (DF)

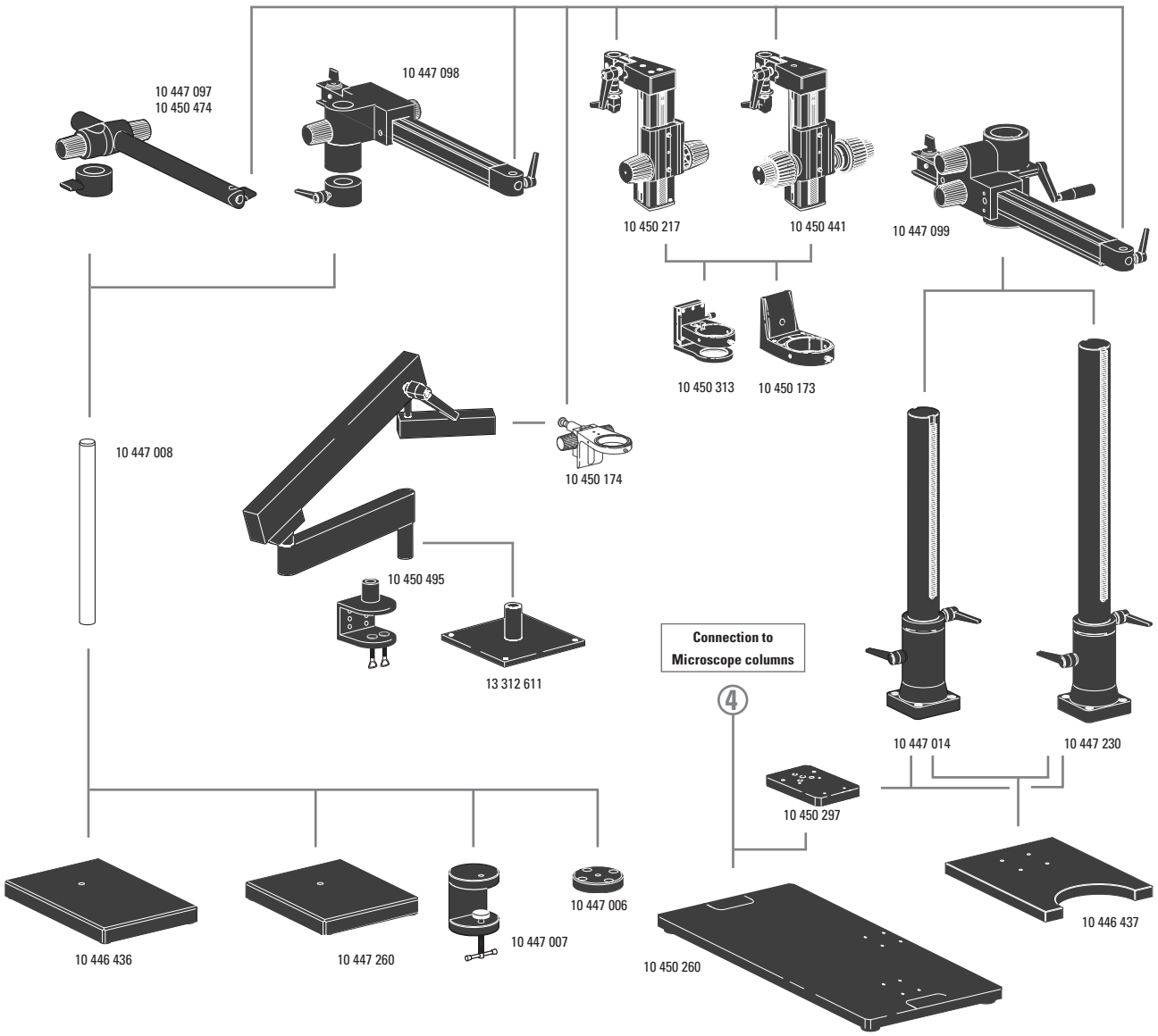


ARTICLE DESCRIPTIONS

10 447 400	Daylight filter for TL3000 ST base
10 450 124	TL4000 BFDF transmitted light base for external cold-light sources with HF and circular DF
10 450 125	Transmitted light base TL4000 RC™ for external cold-light sources with HF, single-sided DF and Rottermann Contrast™ (RC)
10 450 126	Transmitted light base TL4000 RCI™ with HF, DF, RC
10 447 393	Filter ND (gray filter) for base TL4000 RC™/RCI™
10 447 394	BG38 filter for base TL4000 RC™/RCI™
10 447 395	UV filter for TL4000 RC™/RCI™ base
10 450 079	Daylight filter for base TL4000 RCI™
10 450 541	Transmitted light base TL5000 Ergo with integrated LED illumination, automatic contrasting, HF, double-sided DF and RC
10 450 563	Milk-glass filter for base TL5000 Ergo
10 450 564	Green filter for base TL5000 Ergo
10 450 565	Polarization filter for base TL5000 Ergo
10 450 242	Standard adapter plate between column and transmitted light base
10 450 260	XL Universal Base for specimens up to 300 × 300 mm
10 450 297	Adapter for base 10 450 260 for all swinging-arm columns
10 450 289	XL extension – for positioning Leica stereomicroscopes on universal base 10 450 260
10 447 431	Leica ErgoRest™ handrest for fatigue-free working

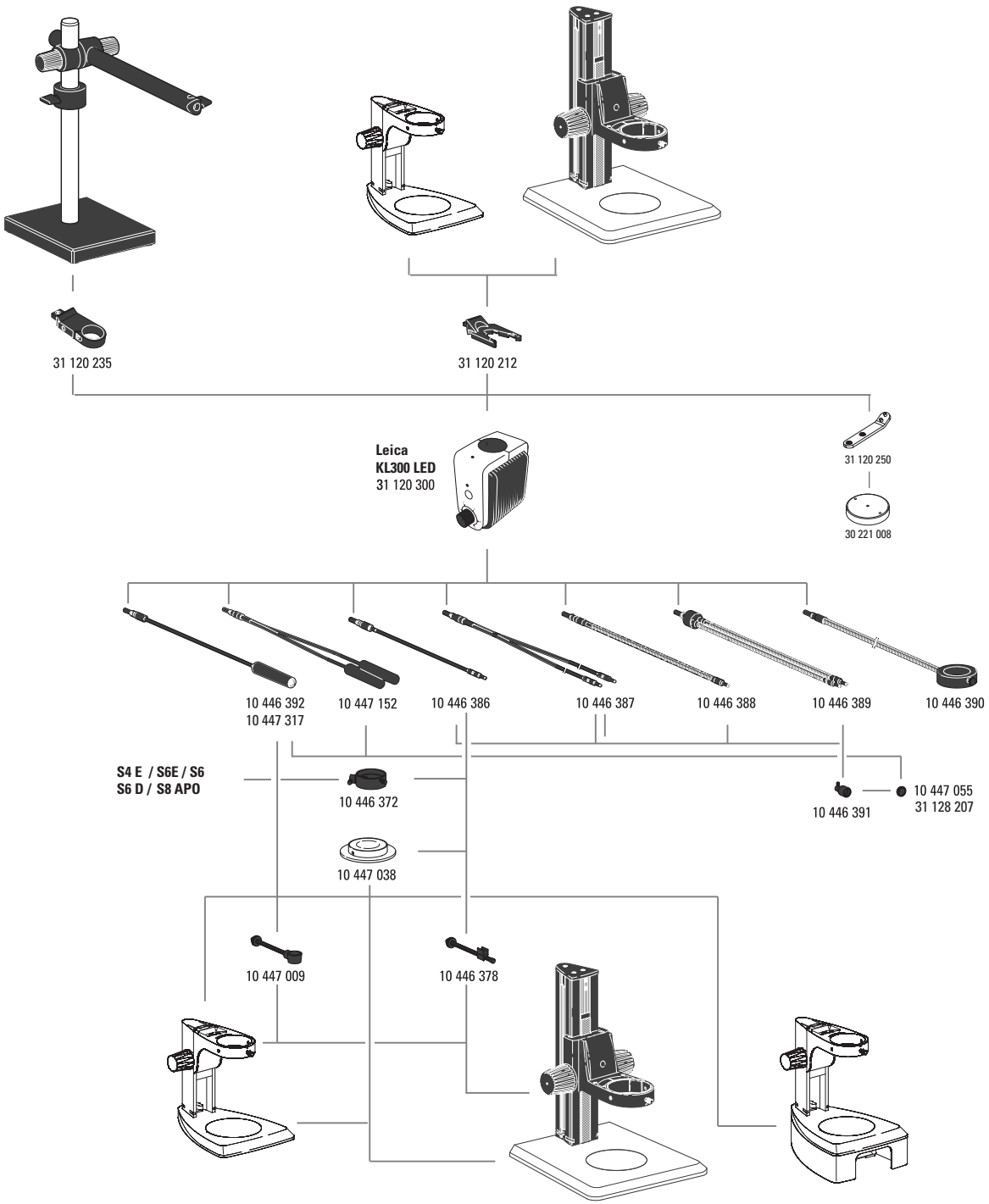
Stages

10 450 562	Standard stage for transmitted light bases TL4000 BFDF, TL4000 RC™ and TL4000 RCI™
10 450 127	Leica IsoPro™ Manual Cross-stage *
10 450 059	Additional buttons for IsoPro™ Manual Cross-stage
10 450 218	Leica IsoPro™ Motorized Cross-stage* *For TL4000 BFDF, TL4000 RC™, TL4000 RCI™ transmitted light bases and incident light base (with adapter 10 450 122)
10 450 122	Adapter between cross-stage and incident light base 10 450 049
10 450 623	Adapter between cross-stages 10 450 218 / 10 450 127 and TL5000 Ergo
10 450 620	Leica MATS TL heating stage insert with control unit for TL bases
10 447 276	Adapter for stages with ∅120 mm
10 446 301	Gliding stage, ∅120 mm
10 447 153	Glass plate matte, ∅ 120 mm
10 450 057	Stage plate black/white, ∅ 120 mm
10 450 058	Stage plate b/w for TL bases, ∅ 120 mm
10 446 302	Polarization stage, ∅ 120 mm
10 382 130	Attachable mechanical stage for polarization stage
10 361 719	Red compensator 1 for Pol rotating stage
10 446 303	Cup stage, ∅ 120 mm
33 000 600	Cup stage, ∅ 120 mm, surface ∅ 150 mm, revolving
10 446 228	Glass stage plate with Pol, ∅ 120 mm; 170×220 mm
10 450 661	LED3000 BLI; backlight illumination for ∅ 120 mm; 170×220 mm



ARTICLE DESCRIPTIONS

10 447 260	Baseplate, small
10 446 436	Baseplate, medium
10 447 008	Vertical column 470/35 mm
10 447 097	Horizontal arm ESD, 500 mm
10 450 474	Horizontal arm ESD, 290 mm
10 447 098	Standard horizontal arm
10 447 006	Flange
10 447 007	Stage clamp
10 446 437	Baseplate, large
10 447 014	Vertical column 560/57 mm
10 447 230	Vertical column 800/57 mm
10 447 099	Horizontal arm, large
10 450 495	Flex-arm stand with table clamp
13 312 611	Table holder for flex-arm stand
10 450 174	Inclinable focusing drive
10 450 217	Focusing drive with inclinable column, not with baseplate small
10 450 441	Coarse/fine focusing drive with inclinable column, not with baseplate small
10 450 173	Microscope carrier for focusing drive 10 450 217
10 450 313	Microscope carrier AX
10 450 260	Universal plate XL for specimens up to 300 × 300 mm
10 450 297	Adapter for universal plate 10 450 260 for all swing arm columns
10 450 289	XL extension – for positioning Leica Stereomicroscopes on the universal base XL 10 450 260



ARTICLE DESCRIPTIONS

Leica KL300 LED illumination

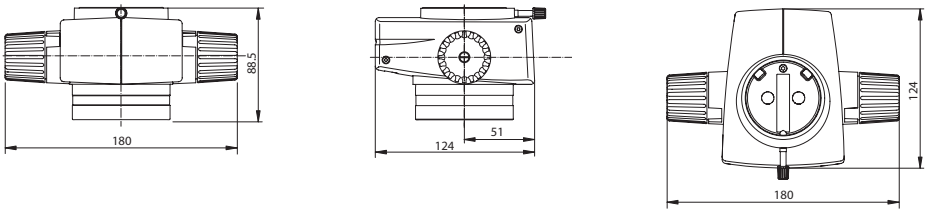
31 120 300	KL300 LED cold-light LED source with power supply unit
31 120 212	KL300 LED adapter for focusing column
31 120 235	KL300 LED adapter for swing-arm stand
31 120 250	KL300 LED, adapter for baseplate 30 221 008
30 221 008	Base plate for KL300 LED

10 446 392	Universal light guide, 600 mm
10 447 317	Universal light guide, 1000 mm
10 447 152	Universal light guide, 2-arm, 600 mm
10 446 386	Flexible light guide, 1-arm, 550 mm
10 446 387	Flexible light guide, 2-arm, 750 mm
10 446 388	Gooseneck light guide 1-arm, 500 mm
10 446 389	Gooseneck light guide 2-arm, 500 mm
10 446 390	6-point ring illuminator, inner diameter 58 mm, 750 mm
10 447 038	Transmitted light stage
10 446 391	Auxiliary focusing lens
10 447 055	Daylight filter for auxiliary focus
31 128 207	Warm light filter for focus lens
10 446 378	Arm for flexible light guide
10 447 009	Arm for universal light guide
10 446 372	Vertical illumination

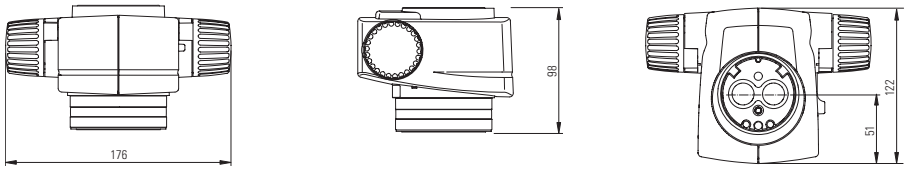
Spare parts for Leica L2

10 447 056	Halogen lamp 8 V/20 W, L2
10 447 015	Leica L2 transformer, 90 – 250 V (not shown)

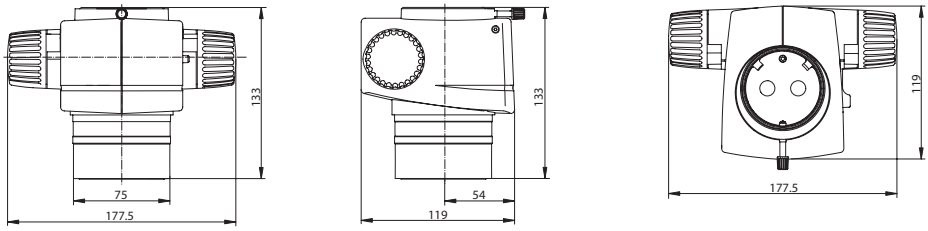
Leica M50



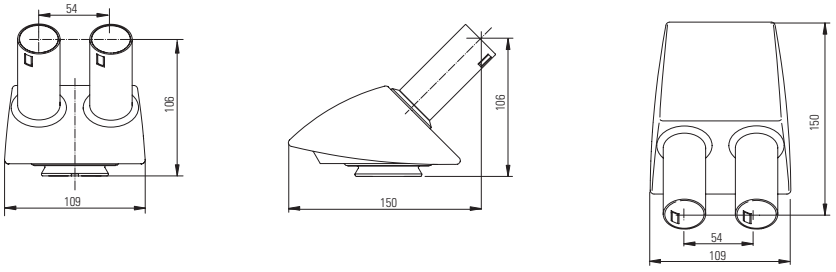
Leica M60



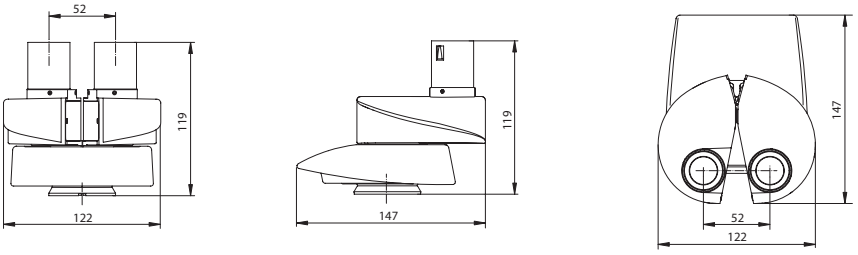
Leica M80



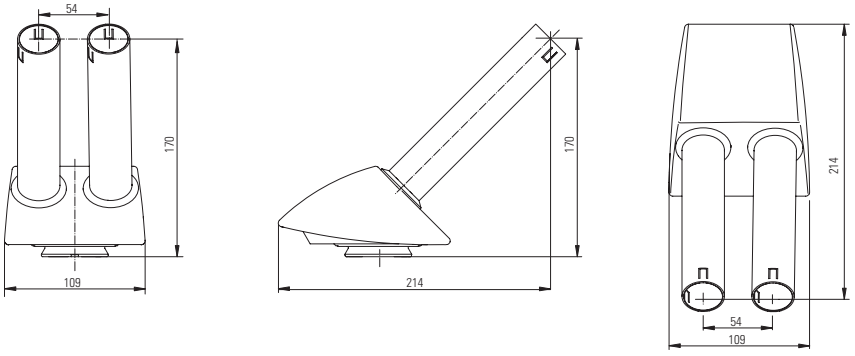
45° tube



Straight tube



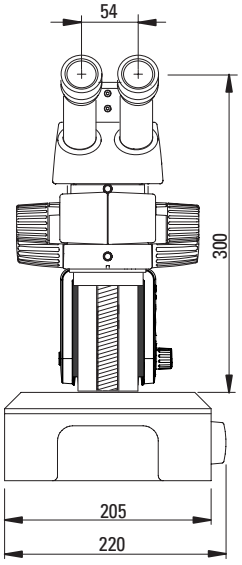
Binocular ErgoTube®

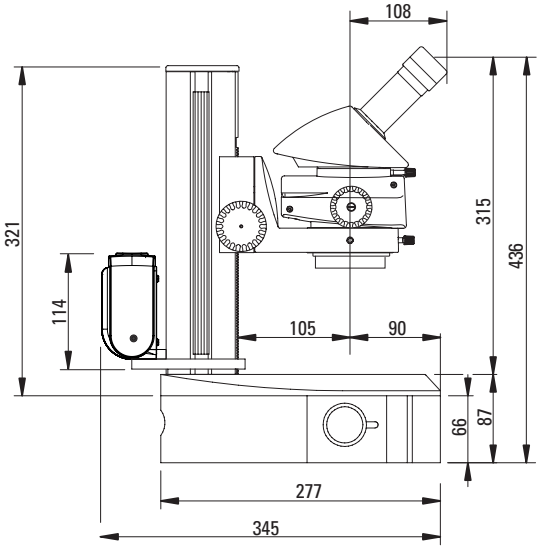


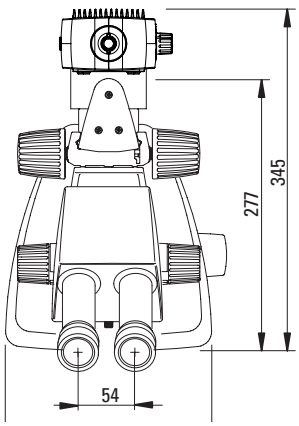
Dimensions in mm

Leica M50

with small incident light base, transmitted light base, Leica KL300 illumination and 45° binocular tube

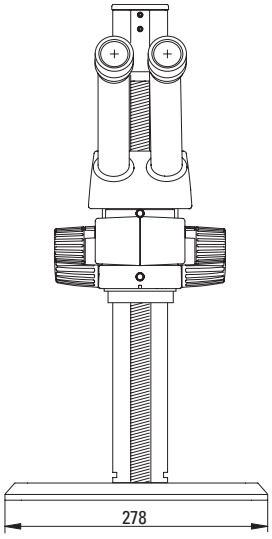


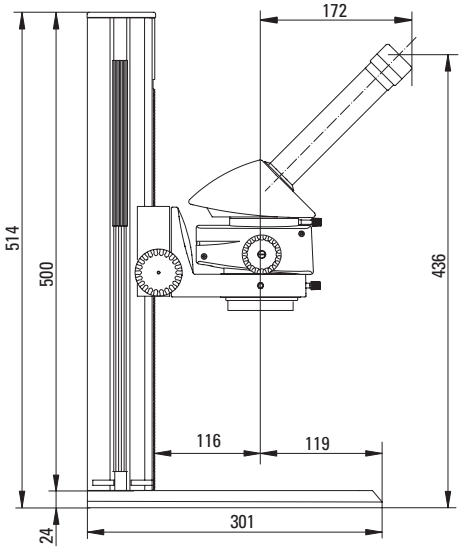


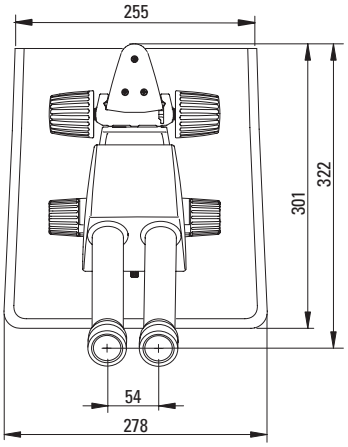


Leica M50

with large incident light base and ErgoTube® 45°



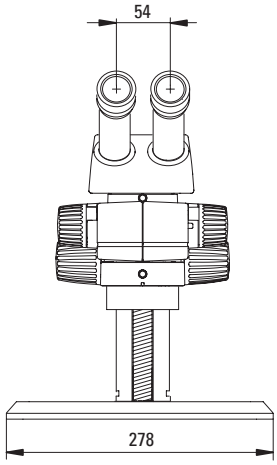


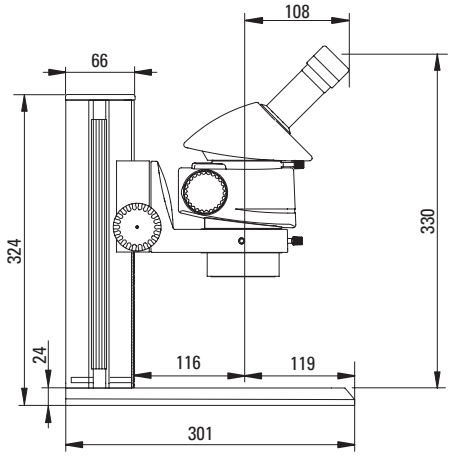


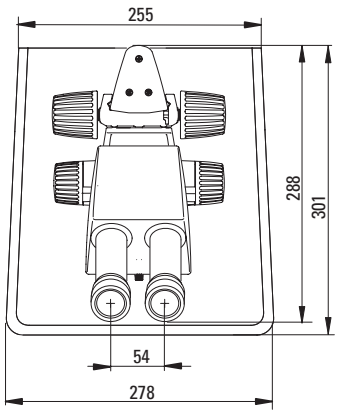
Dimensions in mm

Leica M60

with large incident light base and 45° binocular tube

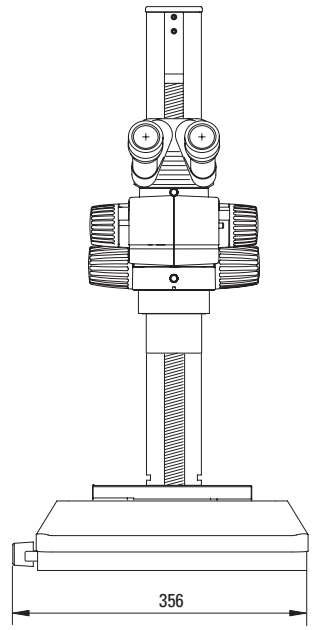


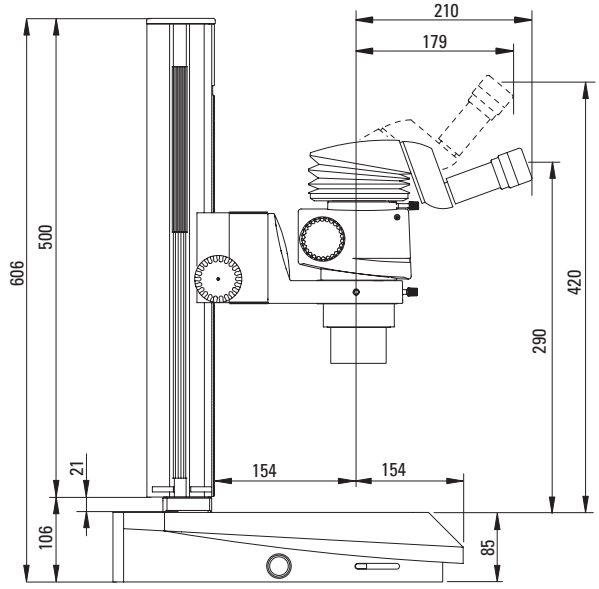


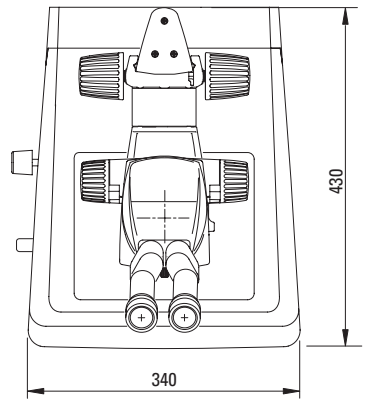


Leica M80

with TL3000 ST transmitted light base and binocular ErgoTube®

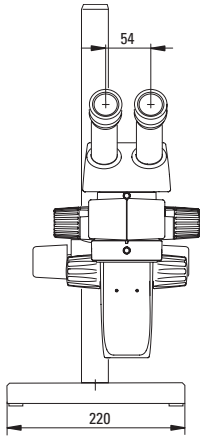


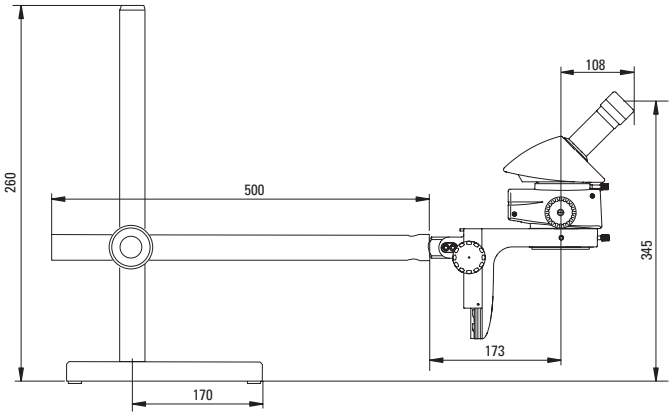


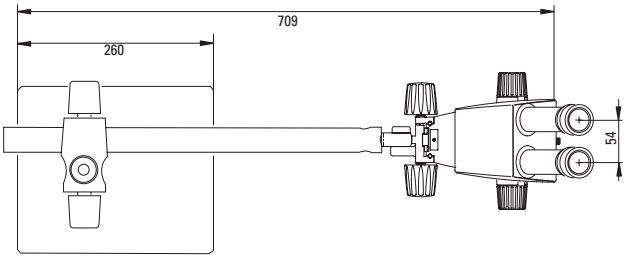


Leica M50

with small swing arm stand and 45° binocular tube

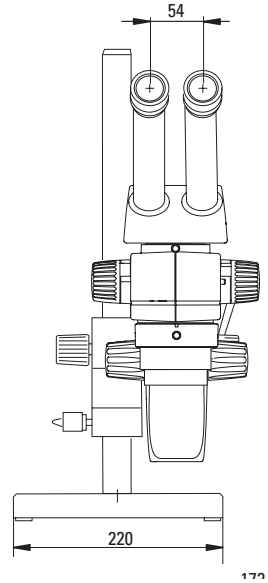


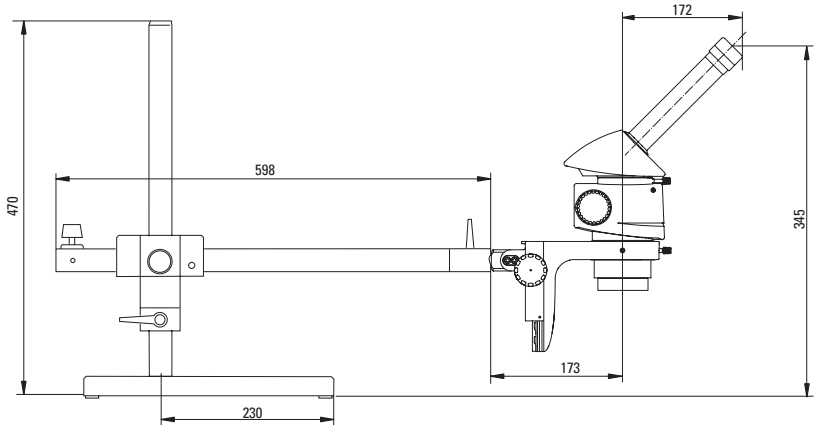


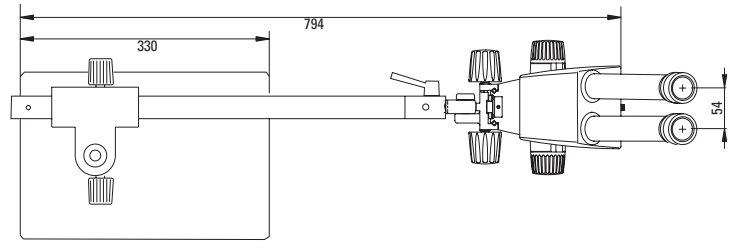


Leica M80

with standard swing arm stand and 45° binocular tube



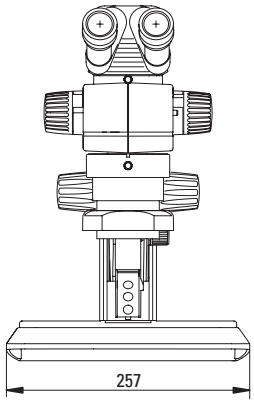


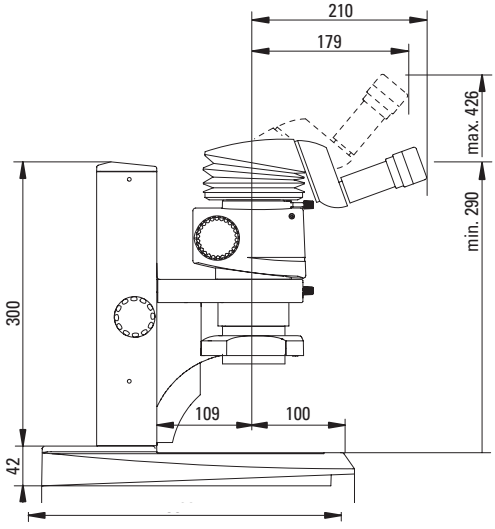


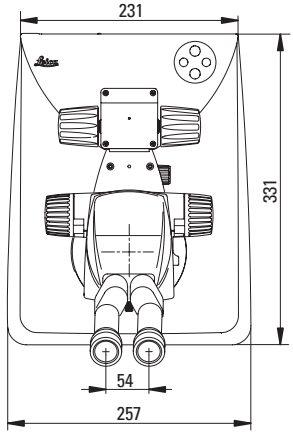
Dimensions in mm

Leica M80

with Leica LED2500 and binocular ErgoTube®

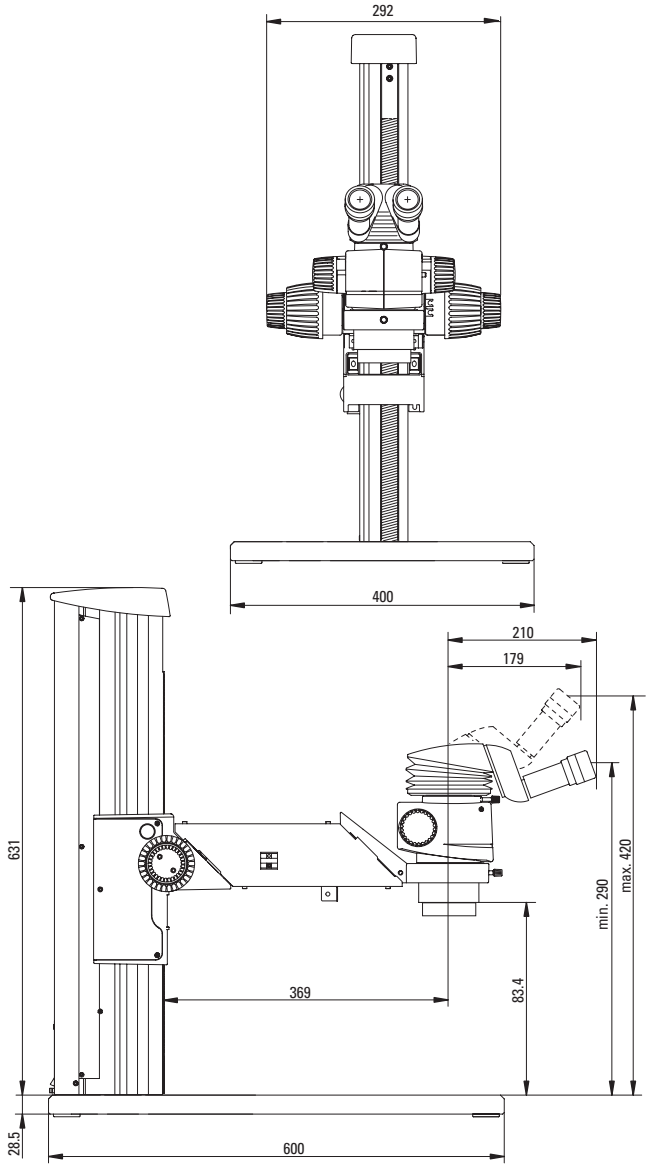


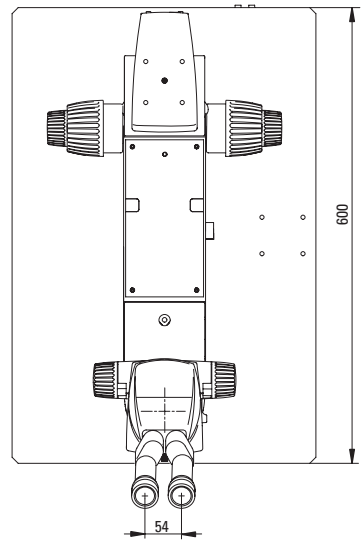




Leica M80

with XL Universal Base, XL extension and Binocular ErgoTube®





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Leica
MICROSYSTEMS

The statement by Ernst Leitz in 1907, "With the User, For the User," describes the fruitful collaboration with end users and driving force of innovation at Leica Microsystems. We have developed five brand values to live up to this tradition: Pioneering, High-end Quality, Team Spirit, Dedication to Science, and Continuous Improvement. For us, living up to these values means: Living up to Life.

Leica Microsystems operates globally in three divisions, where we rank with the market leaders.

LIFE SCIENCE DIVISION

The Leica Microsystems Life Science Division supports the imaging needs of the scientific community with advanced innovation and technical expertise for the visualization, measurement, and analysis of microstructures. Our strong focus on understanding scientific applications puts Leica Microsystems' customers at the leading edge of science.

INDUSTRY DIVISION

The Leica Microsystems Industry Division's focus is to support customers' pursuit of the highest quality end result. Leica Microsystems provide the best and most innovative imaging systems to see, measure, and analyze the microstructures in routine and research industrial applications, materials science, quality control, forensic science investigation, and educational applications.

MEDICAL DIVISION

The Leica Microsystems Medical Division's focus is to partner with and support surgeons and their care of patients with the highest-quality, most innovative surgical microscope technology today and into the future.

Leica Microsystems – an international company with a strong network of worldwide customer services:

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Belgium · Diegem	+32	2 790 98 50	2 790 98 68
Canada · Concord/Ontario	+1	800 248 0123	847 405 0164
Denmark · Ballerup	+45	4454 0101	4454 0111
France · Nanterre Cedex	+33	811 000 664	1 56 05 23 23
Germany · Wetzlar	+49	64 41 29 40 00	64 41 29 41 55
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Japan · Tokyo	+81	3 5421 2800	3 5421 2896
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